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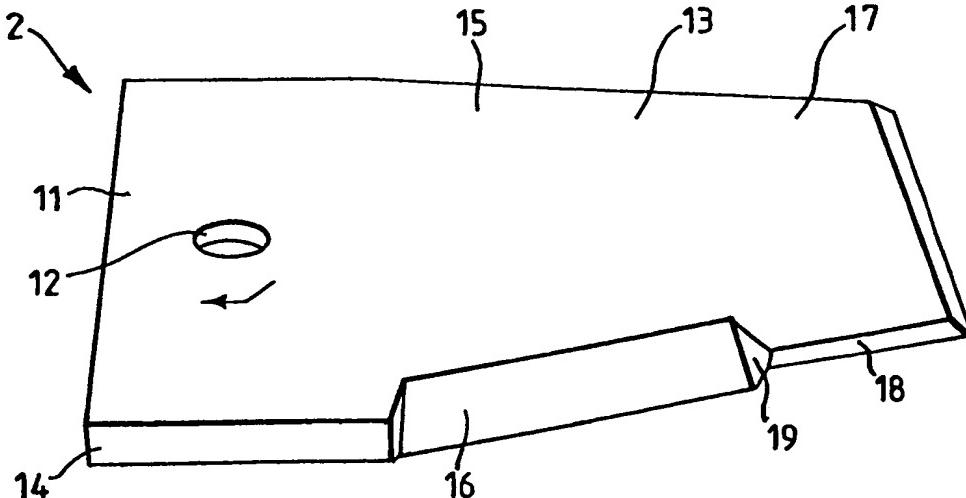
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- (71) Applicant (for all designated States except US): **DOW CORNING CORPORATION [US/US]; Midland, MI 48611 (US).**
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DESCAMPS, Pierre [BE/BE]; 44 Clos de la Mare aux Loups, B-1330 Rixensart (BE). MICHEL, Bertrand [FR/BE]; 6, rue de Saintes, B-1400 Nivelles (BE). THIBAUT, Marc [BE/BE]; 15 rue Destree, B-7160 Godarville (BE).**
- (74) Agents: **DAVIES, Peter, V. et al.; Dow Coming Limited, Cardiff Road, Barry CF63 2YL (GB).**
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[Continued on next page]

(54) Title: GRANULATING MIXERS



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(57) Abstract: A mixer blade which is adapted to be mounted on the shaft of a vertical continuous granulating mixer, characterised in that an inner portion of the leading edge of the blade is bevelled upwards and an outer portion of the leading edge of the blade is substantially vertical or is bevelled downwards. A vertical continuous granulating mixer which comprises a shaft fitted with blades rotating within a tubular housing and having an inlet for solid particles and a spray inlet for liquid to contact the solid particles above the blades, characterised in that an inner portion of at least one of the blades is angled forwards and upwards over at least part of its area so that particles hitting the angled portion of the blade acquire an upwards velocity component.



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MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM,  
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PCT/EP 03/081

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 B02C18/08 B02C18/18 B01F7/04 B01F15/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B02C B01F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 024 010 A (KARL-HEINZ SPERLING) 6 March 1962 (1962-03-06) column 2, line 41 - line 52; figures 1,2 column 2, line 69 -column 3, line 55 column 4, line 43 - line 45 ---	1,6-12
X	US 5 647 546 A (SINOVAS ROSA MARIA ET AL) 15 July 1997 (1997-07-15) abstract; figures 2,3 ---	1
Y	GB 818 489 A (COLUMBIUM CARBON COMPANY) 19 August 1959 (1959-08-19) page 1, line 10 - line 45 page 3, line 48 - line 63 ---	6,7,12
Y	EP 0 744 215 A (HOSOKAWA SCHUGI B V) 27 November 1996 (1996-11-27) page 12 ---	6,7,12
	-/-	

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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Name and mailing address of the ISA  
 European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Philpott, G

## INTERNATIONAL SEARCH REPORT

PCT/EP 0881

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 856 220 A (WATERS B) 24 December 1974 (1974-12-24) abstract; figures 3,4 column 2, line 60 -column 3, line 14 -----	6,7,12
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Information on patent family members

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